

#15



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RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/747,029A

DATE: 03/05/2002
 TIME: 09:56:03

Input Set : A:\INNS031.ST25.txt
 Output Set: N:\CRF3\03052002\I747029A.raw

p.7

ENTERED

3 <110> APPLICANT: Union, Ann
 4 Moereels, Henri
 5 Meheus, Lydie
 7 <120> TITLE OF INVENTION: PEPTIDES DESIGNED FOR THE DIAGNOSIS AND TREATMENT OF
 8 RHEUMATOID ARTHRITIS
 10 <130> FILE REFERENCE: 11362.0031NPUS00 INNS:031
 12 <140> CURRENT APPLICATION NUMBER: US 09/747,029A
 13 <141> CURRENT FILING DATE: 2000-12-21
 15 <150> PRIOR APPLICATION NUMBER: EP 00870195.5
 16 <151> PRIOR FILING DATE: 2000-09-08
 18 <150> PRIOR APPLICATION NUMBER: EP 99870280.7
 19 <151> PRIOR FILING DATE: 1999-12-21
 21 <160> NUMBER OF SEQ ID NOS: 22
 23 <170> SOFTWARE: PatentIn version 3.0
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 26 <211> LENGTH: 18
 27 <212> TYPE: PRT
 28 <213> ORGANISM: Artificial Sequence
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 33 <220> FEATURE:
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 35 <222> LOCATION: (1)..(3)
 36 <223> OTHER INFORMATION: Xaa represents Ser, Thr, Asp, Glu, Asn, Gln, His, Lys or Arg
 38 <220> FEATURE:
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 41 <223> OTHER INFORMATION: Xaa represents Ile, Leu, Val, Ala or Met
 43 <220> FEATURE:
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 46 <223> OTHER INFORMATION: Xaa represents His, Lys, Arg, Asp, Glu, Ser, Thr, Tyr, Phe or
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 50 <222> LOCATION: (6)..(6)
 51 <223> OTHER INFORMATION: Xaa represents Gly
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 56 <223> OTHER INFORMATION: Xaa represents His, Lys, Arg, Asp, Glu, Ser, Thr, Tyr, Phe or
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 58 <220> FEATURE:
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60 <222> LOCATION: (8)..(8)

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71 <223> OTHER INFORMATION: Xaa represents Citrulline, Gly, Ser or Thr
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75 <222> LOCATION: (12)..(12)
76 <223> OTHER INFORMATION: Xaa represents Citrulline
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80 <222> LOCATION: (13)..(13)
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90 <222> LOCATION: (15)..(15)
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92      Phe or Trp
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103      Phe, Trp
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122 <223> OTHER INFORMATION: Xaa represents Ile, Leu, Val, Ala or Met

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W--> 149 <220> FEATURE:
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151 <222> LOCATION: (8)..(8)
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167 <223> OTHER INFORMATION: Xaa represents His, Lys, Arg, Asp, Glu, Ser, Thr, Tyr, Phe
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171 <222> LOCATION: (12)..(12)
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173 Phe or Trp
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178 <223> OTHER INFORMATION: Xaa represents Gly
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181 <221> NAME/KEY: MOD_RES
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183 <223> OTHER INFORMATION: Xaa represents Tyr, His, Lys, Arg, Asp, Glu, Ser, Thr, Gln,

Asn,

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184 Phe or Trp

187 <400> SEQUENCE: 2

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194 <212> TYPE: PRT

195 <213> ORGANISM: Artificial Sequence

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198 <223> OTHER INFORMATION: Synthetic Peptides

200 <220> FEATURE:

201 <221> NAME/KEY: MOD_RES

202 <222> LOCATION: (1)..(1)

203 <223> OTHER INFORMATION: Xaa represents His, Lys, Arg, Asp, Glu, Ser, Thr, Tyr, Phe or Trp

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207 <222> LOCATION: (2)..(2)

208 <223> OTHER INFORMATION: Xaa represents Gly

210 <220> FEATURE:

211 <221> NAME/KEY: MOD_RES

212 <222> LOCATION: (3)..(3)

213 <223> OTHER INFORMATION: Xaa represents His, Lys, Arg, Asp, Glu, Ser, Thr, Tyr, Phe or Trp

215 <220> FEATURE:

216 <221> NAME/KEY: MOD_RES

217 <222> LOCATION: (4)..(4)

218 <223> OTHER INFORMATION: Xaa represents Pro or Gly

220 <220> FEATURE:

221 <221> NAME/KEY: MOD_RES

222 <222> LOCATION: (6)..(6)

223 <223> OTHER INFORMATION: Xaa represents Ser, Thr, Asp or Gly

225 <220> FEATURE:

226 <221> NAME/KEY: MOD_RES

227 <222> LOCATION: (7)..(7)

228 <223> OTHER INFORMATION: Xaa represents Citrulline, Gly, Ser or Thr

230 <220> FEATURE:

231 <221> NAME/KEY: MOD_RES

232 <222> LOCATION: (8)..(8)

233 <223> OTHER INFORMATION: Xaa represents Citrulline

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237 <222> LOCATION: (9)..(9)

238 <223> OTHER INFORMATION: Xaa represents Gly

240 <220> FEATURE:

241 <221> NAME/KEY: MOD_RES

242 <222> LOCATION: (10)..(10)

243 <223> OTHER INFORMATION: Xaa represents His, Lys, Arg, Asp, Glu, Ser, Thr, Tyr, Phe or Trp

246 <220> FEATURE:

247 <221> NAME/KEY: MOD_RES

248 <222> LOCATION: (11)..(11)

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Input Set : A:\INNS031.ST25.txt
Output Set: N:\CRF3\03052002\I747029A.raw

249 <223> OTHER INFORMATION: Xaa represents Arg, Lys, His, Asp, Glu, Ser, Thr, Gln, Asn, Tyr,

250 Phe or Trp

252 <220> FEATURE:

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255 <223> OTHER INFORMATION: Xaa represents Gly

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260 <223> OTHER INFORMATION: Xaa represents Tyr, His, Lys, Arg, Asp, Glu, Ser, Thr, Gln, Asn,

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269 <210> SEQ ID NO: 4

270 <211> LENGTH: 18

271 <212> TYPE: PRT

272 <213> ORGANISM: Artificial Sequence

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275 <223> OTHER INFORMATION: Synthetic Peptides

277 <220> FEATURE:

278 <221> NAME/KEY: MOD_RES

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282 <220> FEATURE:

283 <221> NAME/KEY: MOD_RES

284 <222> LOCATION: (2)..(2)

285 <223> OTHER INFORMATION: Xaa represents Ser, Thr, Asp, Glu, Asn, Gln, His, Lys or Arg

287 <220> FEATURE:

288 <221> NAME/KEY: MOD_RES

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292 <220> FEATURE:

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294 <222> LOCATION: (4)..(4)

295 <223> OTHER INFORMATION: Xaa represents Ile, Leu, Val, Ala or Met

297 <220> FEATURE:

298 <221> NAME/KEY: MOD_RES

299 <222> LOCATION: (5)..(5)

300 <223> OTHER INFORMATION: Xaa represents His, Lys, Arg, Asp, Glu, Ser, Thr, Tyr, Phe or Trp

302 <220> FEATURE:

303 <221> NAME/KEY: MOD_RES

304 <222> LOCATION: (6)..(6)

305 <223> OTHER INFORMATION: Xaa represents Gly

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309 <222> LOCATION: (7)..(7)

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312 <220> FEATURE:

FYI

Use of n and/or Xaa has been detected in the Sequence Listing.
Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY

DATE: 03/05/2002

PATENT APPLICATION: US/09/747,029A

TIME: 09:56:04

Input Set : A:\INNS031.ST25.txt

Output Set: N:\CRF3\03052002\I747029A.raw

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L:119 M:283 W: Missing Blank Line separator, <220> field identifier
L:189 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:266 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:360 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:363 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:447 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:521 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:543 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:563 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:589 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:615 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:641 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:667 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:693 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:716 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
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L:776 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
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L:815 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:833 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:851 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
L:869 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22